Use Attainability Analysis

for

WBID 1422 Billies Creek

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

260 300 14 Pil 3: 04

Data Sheet A - Water Body Identification

Data Sneet A - Water Body Identification	MATER PROTECTION PROGRAM
	WATER PROTECTION CHO
Water Body Name (from USGS 7.5' quad): Billies Cyeek	
8-digit HUC: 10290106	
Missouri WBID#: 1422	
County: Lawringe	
Upstream Legal Description: Sec. 26, T. 29N, R. 25W	
Downstream Legal Description: Sec. 17, T. 29N R. 25U	
Upstream Coordinates: E '443891 N' 4116528	
Downstream Coordinates: E' 438943, N: 4119304	
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	
Name of Surveyor and Telephone Number: Gene Campbell & Jeff Woo	ndward 417-888-4028
Organization: MDNR	
Position: Soil Scientist	

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Jul Campbell Date: 7/6/05

Billies Creek (WB1422) Lawrence County, Missouri

Billirs Q

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 14	22-00 l		Site Location D	escription:	
Site GPS Coordinates:	E:443891 N:4	1116528	HWY 3	2/0/0	
Date & Time: (1)	7/05	11:25	Facility Name:		
Personnel: Campb	ell diwoods	7.1	Permit Number:		
Current Weather Condit			Weather Condit	ions for Past 7 days:	r40v.
Photo Ids: Upstream:(1)	1 17	mstream: WB(, 	· 100	7
	MINITARY VILL		0118201		
es Observed*:	<u>.</u>				
Swimming	Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	ting	Wading	Rafting
I Hunting	Trapping	Fish	ning	None of the above	Other:
Describe: (include numb	er of individuals recr	reating, freque	ency of use, photo-	documentation of evidence	of recreational uses, etc.
rrounding Condition				ses. Attach photos of evidence	
rrounding Condition		romote or imp			
rrounding Condition	ns*: (Mark all that p	romote or imp	ede recreational u	ses. Attach photos of evide	nce or unusual
rrounding Conditions of interest.)	ns*: (Mark all that p	romote or imp	pede recreational unservation lands	ses. Attach photos of eviden	nce or unusual
rrounding Conditions of interest.) City/county parks Boating accesses	Playgrounds State parks Fence	romote or imp MDC con National	pede recreational unservation lands	ses. Attach photos of evider Urban areas Nature trails	nce or unusual
rrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	Playgrounds State parks Fence	romote or imp MDC con National i	pede recreational unservation lands	ses. Attach photos of evider Urban areas Nature trails	nce or unusual
rrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	Playgrounds State parks Fence	romote or imp MDC cor National i	pede recreational unservation lands forests	ses. Attach photos of evidence. Urban areas Nature trails Other:	nce or unusual Campgrounds Stairs/walkway

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID # 1422:00\

Stream Mor		N				
Riffle	View Physical I Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):	Avg. Depth (Max. Depth (
Pool	Width (ft): (7)	Length (ft): 7	Avg. Depth (\sim \sim 1	Max. Depth (
Flow	Present? Yes	□No	Estimated (ft		• ,	
Danmatua	ana Viano Dhania	al Dimensiones				
Riffle	am View Physica Width (ft):	Length (ft):	Avg. Depth (#)·	Max. Depth (ft)·
Run	Width (ft):	Length (ft):	Avg. Depth (Max. Depth (-
Pool	Width (ft): 20	Length (ft): 2		<i>(</i>)	Max. Depth (
Flow	Present? Yes	□ No	Estimated (ft			
	(These values should be Cobble /a()	d add up to 100%.) % Gravel	% Sand	% Silt	% Mud/Clay	25% Bedrock
		_				
Aquatic Veg	etation*: (note am	ount of vegetation or	algal growth at the asse	ssment site)		
Tregar	C ON YOUR	,				
Water Chara	acteristics*: (Mar	k all that apply.)				
Odor:	☐ Sewage	☐ Musky	Chemical	None	Other:	
Color:	Clear	Green	Gray	Milky	Other:	
Bottom Dep	oosit: Sludge	☐ Solids	Eine sediments	☐ None	Other:	
Surface De	posit: 🔲 Oil	☐ Scum	Foam	None	Other:	
COU This information	on is not to be used s understanding of wat	Olely for removal of a er conditions. Consec	recreational use design quently, this information	e (e ation but rather in is not intende	r is to provide a mor	rc ce a
	igned, hereby af		f my knowledge, tl			d on this UAA
Signed:	ene Cam	phell		7/6/05		
	MDINR		Position	: <u>Soil :</u>	Scientis	<u>s+</u>

1422-001-US



1422-001-DS



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 142	12-002		Site Location De	escription;	
Site GPS Coordinates: E	. 442337. N.	4117609	County	Rd. 1225	
Date & Time: (0/27	105	11.20	Facility Name:		
Personnel: Cand Ok	HILD Wood	March	Permit Number:		
Current Weather Condition		HotoDV	Weather Conditi	ions for Past 7 days: 140+	40r-
Photo Ids: Upstream:		nstream://)(2)			
	MITAL ULL	W L H	41188 N H		
Uses Observed*:					
☐ Swimming	Skin diving	□ SC	UBA diving	Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	ating	☐ Wading	Rafting
Hunting	Trapping	☐ Fisl	ning	None of the above	Other:
•	s*: (Mark all that p	promote or imp	pede recreational u	uses. Attach photos of evide	nce or unusual
•	s*: (Mark all that p		pede recreational u	ses. Attach photos of evide	nce or unusual
tems of interest.)	-		nservation lands	- " -	·
tems of interest.) City/county parks	Playgrounds	MDC cor	nservation lands	Urban areas	Campgrounds
City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC cor	nservation lands	Urban areas Nature trails	Campgrounds
☐ Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC cor ☐ National ☐ Steep slo	nservation lands	Urban areas Nature trails	Campgrounds
tems of interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	MDC con National Steep slo	nservation lands forests pes	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

Page Two – WBID # 1422:002

Upstream View Physical Dimensions: Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): Length (ft): 30 Avg. Depth (ft): Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Downstream View Physical Dimensions: Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): 30 Length (ft): 75 Avg. Depth (ft): 3 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 30 % Cobble 70% Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)):
□ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) ☑ Pool Width (ft): ☑ Length (ft): 3 ② Avg. Depth (ft): Max. Depth (ft) ☑ Flow Present? ☑ Yes ☐ No Estimated (ft³/sec): Downstream View Physical Dimensions: □ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) □ Pool Width (ft): 3 ② Length (ft): 7 ③ Avg. Depth (ft): 7 ③ Max. Depth (ft) □ Flow Present? Max. Depth (ft) □ Flow Present? Yes ☐ No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)):
Pool Width (ft): 26 Length (ft): 30 Avg. Depth (ft): 12 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Downstream View Physical Dimensions: Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): 30 Length (ft): 75 Avg. Depth (ft): 3 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Piow Present? Yes No Estimated (ft³/sec): Downstream View Physical Dimensions:): 2 f] .
Piow Present? Yes No Estimated (ft³/sec): Downstream View Physical Dimensions:	
Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): 3 Length (ft): 75 Avg. Depth (ft): 75 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 3 0 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): 3 Length (ft): 75 Avg. Depth (ft): 75 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 3 0 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft) Pool Width (ft): 3 Length (ft): 75 Avg. Depth (ft): 7 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	······
Pool Width (ft): 30 Length (ft): 75 Avg. Depth (ft): 3 Max. Depth (ft) Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Flow Present? Yes No Estimated (ft³/sec): Substrate*: (These values should add up to 100%.) 30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Substrate*: (These values should add up to 100%.) 30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)):
30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
30 % Cobble 70 % Gravel % Sand % Silt % Mud/Clay Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	
Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	% Bedrock
Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)	% Bedrock
Alene an cocks	
Isigue on toers	
Water Characteristics*: (Mark all that apply.)	
Odor: Sewage Musky Chemical None Other:	
Color:	
Bottom Deposit: Sludge Solids Fine sediments None Other:	
Surface Deposit: Oil Scum Foam None Other:	
Comments: Please attach additional comments (including information from interviews) to this fo	m.
Fish	
Fish	
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more omprehensive understanding of water conditions. Consequently, this information is not intended to directly influence	e a
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more omprehensive understanding of water conditions. Consequently, this information is not intended to directly influence	e a
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more omprehensive understanding of water conditions. Consequently, this information is not intended to directly influence lecision on the recreation use analysis but may point to conditions that need further analysis or that effect another use	e a
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more omprehensive understanding of water conditions. Consequently, this information is not intended to directly influence decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use, the undersigned, hereby affirm to the best of my knowledge, that all information reported	e a
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence lecision on the recreation use analysis but may point to conditions that need further analysis or that effect another used, the undersigned, hereby affirm to the best of my knowledge, that all information reported latasheet is true and accurate.	e a on this UAA
This information is not to be used solely for removal of a recreational use designation but rather is to provide a more omprehensive understanding of water conditions. Consequently, this information is not intended to directly influence decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use, the undersigned, hereby affirm to the best of my knowledge, that all information reported	e a on this UAA

1422-002-US





Billies 0

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#:	122-003		Site Location De	scription:	
Site GPS Coordinates:	:440575.N:41	19045	Count	y Rd. 1220	
Date & Time: 6/2	1105	11:10	Facility Name:	1	
Personnel: Cam 0 0	ell & Woods	lavel	Permit Number:		
Current Weather Conditi			Weather Conditi	ons for Past 7 days:	+Dry
Photo Ids: Upstream:		nstream:WB(0142203 Other	WBE1422-63	131 1
			- 1 7-5-2	732-1122- 442	
Uses Observed*:	<u> </u>				·F· ··
Swimming	Skin diving	☐ SC	JBA diving	Tubing	☐ Water skiing
☐ Wind surfing	Kayaking	☐ Boa	ting	Wading	Rafting
Hunting	Trapping	☐ Fish	ing	None of the above	Other:
Describe: (include number	er of individuals recre	eating, freque	ncy of use, photo-	documentation of evidence	of recreational uses, etc.)
Surrounding Condition	s*: (Mark all that pr	omote or imp	ede recreational us	ses. Attach photos of evider	ice or unusual
tems of interest.)					
☐ City/county parks	☐ Playgrounds	MDC con	servation lands	Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National f	orests	☐ Nature trails	Stairs/walkway
☐ No trespass sign	Fence	Steep slop	oes	Other:	
F	. dr.				
Evidence of Human Use			- al. /alas form	TOT :	DV (ATV Torolo
Rope swings	☐ Foot paths/prints ☐ Camping Sites		ock/platform re pit/ring	Livestock Watering NPDES Discharge	RV / ATV Tracks Fishing Tackle
Other:	☐ Camping Sites	🗀 ғт	re brating	INPUES Discharge	Fishing Tackie
Onter.					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

Page Two - WBID #<u>1422</u>: 003

Stream Mo Unstream	rphology: n View Physical l	Dimensions:				
Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):		Max. Depth (ft):	
Run	Width (ft):	Length (ft):	Avg. Depth (ft):		Max. Depth (ft):	
Pool	Width (ft): 50	Length (ft):	Avg. Depth (ft):	34	Max. Depth (ft):	
Flow	Present? X Yes	□ No	Estimated (ft³/se	ec):		
D	1/: Db	-1 Tii				
	eam View Physic Width (ft):	Length (ft):	Avg. Depth (ft):		Max. Depth (ft):	
Run	Width (ft):	Length (ft):	Avg. Depth (ft):		Max. Depth (ft):	
Pool	11.5			- ^1		~ ()
	Width (ft): 4 (Max. Depth (ft):	<u> 3tt.</u>
Flow	Present? Yes	∐ No	Estimated (ft ³ /se	ec):		
Substrata*:	(These values shoul	d add up to 100% \				
	% Cobble 9()	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	70 00001	74 312701	/ D D D D D D D D D D D D D D D D D D D		74 27-44-4-47	
Aquatic Ve	getation*: (note am	ount of vegetation or	algal growth at the assessn	nent site)		
Algo	le on rock	5				
Water Cha	racteristics*: (Mar	k all that apply.)		_		
Odor:	Sewage		Chemical	None	Other:	
Color:	☐ Clear	Green	☐ Gray		Other:	
Bottom D	·	☐ Solids	☐ Fine sediments 🔀	None	Other:	
Surface D	eposit: XOil	Scum	Foam	None	Other:	
*This informat comprehensive decision on the I, the under	ion is not to be used so understanding of war recreation use analys signed, hereby at	olely for removal of a ter conditions. Consectis but may point to confirm to the best of	including information CMC IMC recreational use designation quently, this information is additions that need further a f my knowledge, that	on but rather not intended analysis or th	is to provide a more I to directly influence a at effect another use.	a
	true and accurat					
Signed:	Ine Co	mptell	Date:	14/05	scientis	
	: MDNR	V	Position:	Soil	Scientis	<u>+</u>





1422-003-Extra



Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

Missouri WBID#: ¡᠘	22-004		Site Location De	escription:		
Site GPS Coordinates:	438943 114	119304	Countre	21 1205		
Date & Time: / 127/05 10'55 Facility Name:						
Personnel: Camob						
Current Weather Condition		lot Dry	Weather Conditi	ons for Past 7 days: Hot	#Dry	
Photo Ids: Upstream: WBU1422-04 Downstream: WBD1422-04 Other:						
- PV1	Jul 120 0 11	101-11	MARV U		······································	
Uses Observed*:		ļ		•		
	Skin diving	SCU	JBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	Boa	iting	Wading	Rafting	
☐ Hunting	☐ Trapping	☐ Fish	ning	None of the above	Other:	
Describe: (include numbe	r of individuals recr	eating, freque	ncy of use, photo-	documentation of evidence	of recreational uses, etc.)	
Surrounding Condition	S*: (Mark all that re	romote or imp	ede recreational u	ses. Attach photos of eviden	ice or unusual	
items of interest.)	a - (man an an an p	romote or mip	odo roorodiionai a	ous. I tender photos of original		
City/county parks	Playgrounds	MDC cor	servation lands	Urban areas	Campgrounds	
Boating accesses	State parks	☐ National i	forests	☐ Nature trails	Stairs/walkway	
☐ No trespass sign	Fence	Steep slop	pes	Other:		
Evidence of Human Use		1 —				
Roads	Foot paths/prin		ock/platform	Livestock Watering	RV / ATV Tracks	
Rope swings	Camping Sites	☐ Fi	re pit/ring	☐ NPDES Discharge	Fishing Tackle	
 						

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

Page Two - WBID #_1422:004

Stream Morph	ology: iew Physical Di	mansians				
	idth (ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
☐ Run W	idth (ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
	idth (ft): 35		10) Avg. Depth ((ft): 7	Max. Depth (ft):	464.
Flow Pr	esent? XYes	□ No	Estimated (fi	t ³ /sec):		
Downstream	View Physical	Dimensions:				
	idth (ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
☐ Run W	idth (ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	•
Pool W	idth (ft): 35	Length (ft): 2	Avg. Depth ((ft): 13 La	Max. Depth (ft):	4 ft.
Flow Pr	esent? Yes	□ No	Estimated (ft	1 ³ /sec):		•
Aquatic Vegeta	tion*: (note amou	int of vegetation or a	lgal growth at the asse	essment site)		
Water Charact	eristics*: (Mark	ali that apply.)				
Odor:	☐ Sewage	☐ Musky	☐ Chemical	Nonc	Other:	
Color:	Clear	Green	Gray	Milky	Other:	
Bottom Deposi		☐ Solids	Fine sediments	None	Other:	
Surface Depos	it: ☐ Oil	☐ Scum	Foam	☐ None	Other:	
*This information is comprehensive und	s not to be used sole erstanding of water	ely for removal of a r	recreational use design	ation but rather	d to directly influence a	
datasheet is tru	e and accurate.			.	mation reported o	n this UAA
Signed:	ne Camp	well	Date:	7/6/05	<u> </u>	
Organization:				2.1	Scientist	<i>(</i>

1422-004-US





